

# Challenge for Smart City Projects in Japan

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## Key Agenda for Smart City

- ✓ Solutions against various issues surrounding cities, e.g., environment, economy, energy and disaster, etc.
- ✓ Better quality of life for the residents

## Fujitsu's Vision

- ✓ Underpinning Social & Business Innovation by ICT



**Human Centric Intelligent Society**

## Vision for Smart City

- Establishing smart social infrastructure empowered by ICT
- Solving the issues for vitalization of the city together with the residents

**Creating sustainable value-cycle  
within community by ICT**

# Regional Projects



# Regional Smart City Projects

■ Projects in more than 20 areas under Way

Urayasu City, Chiba

Toyota City, Aichi

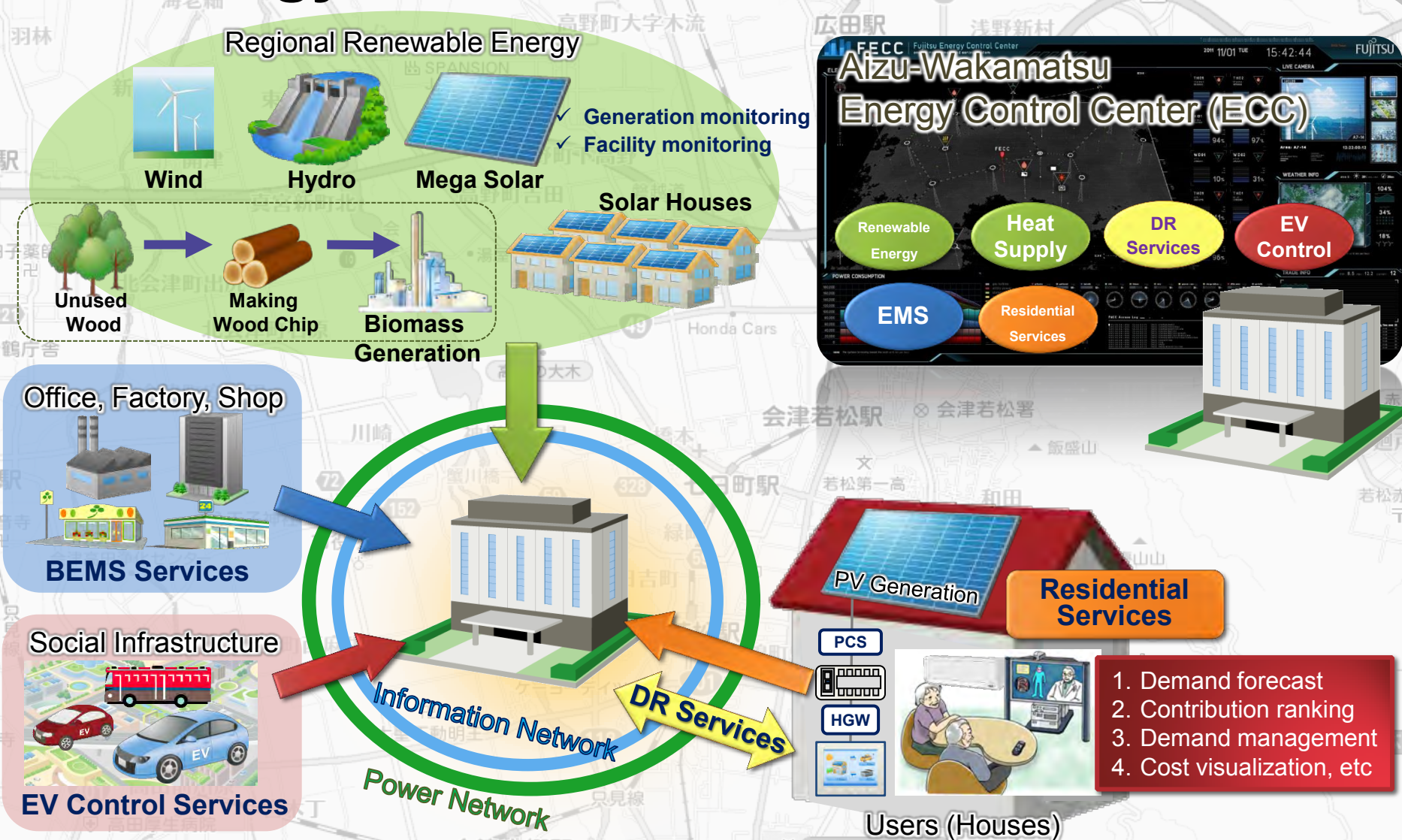
Sumoto City, Awaji Island

Satsumasendai City,  
Kagoshima

Aizu-Wakamatsu City,  
Fukushima



## Energy Control Center



### Smart City Development by ECC Infrastructure and New Services

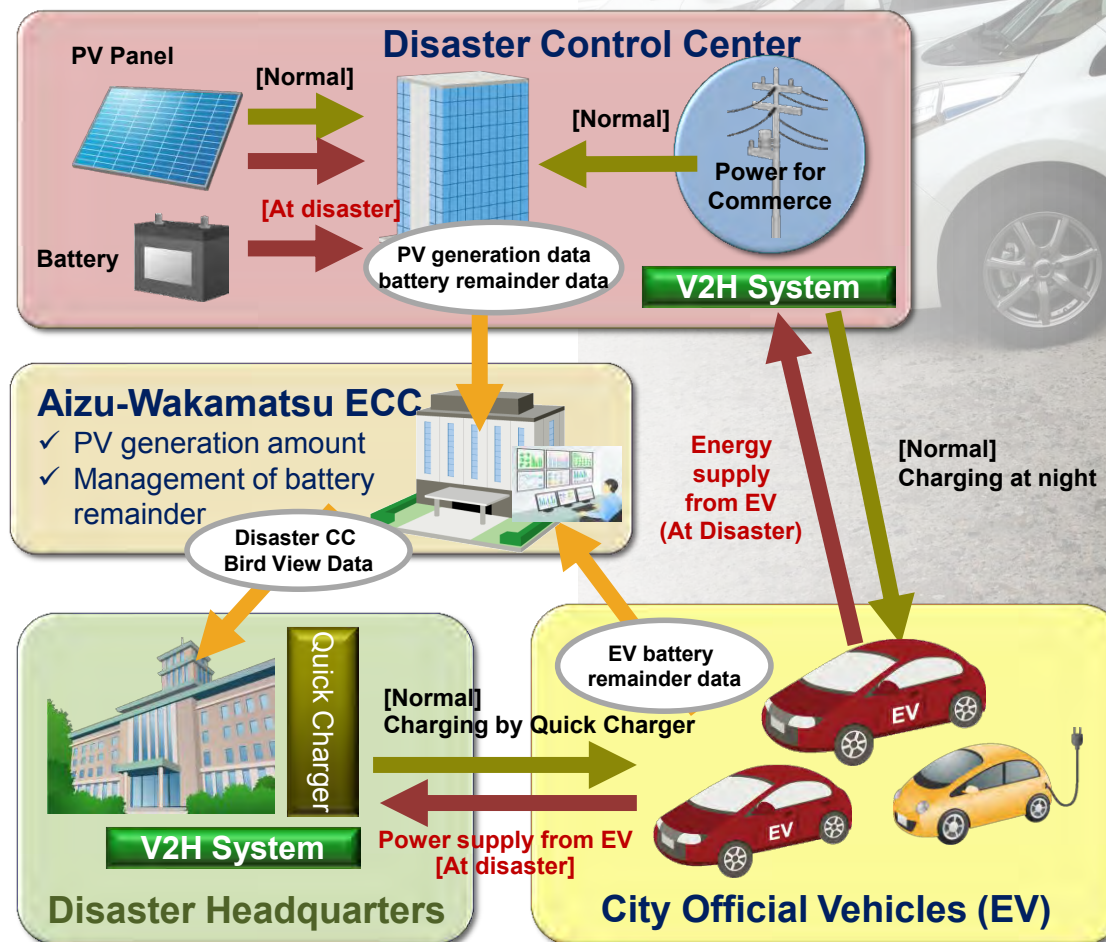
EV: Electric Vehicle





# EV Control Service for Disaster

## ■ Utilizing State Vehicles as Mobile Batteries at Emergency



## CO2 Reduction and Robust City Development

# Aizu-Wakamatsu: Provision of New Services

## ■ Contributing to Vitalization of the City

### Sightseeing Cloud (Tour Route Guide on Web)

- Sightseeing information for tourists
- Enhanced Information including side trips

Choice of What to See

Making "My Route"  
→ Fastest Route Calculation

Choice of sightseeing spots from web sites

Distance and required time

Fastest route recommended(\*)

Route customization

Advices of side trips

\*Patent-Pending







## Practice and Research for ICT Farming

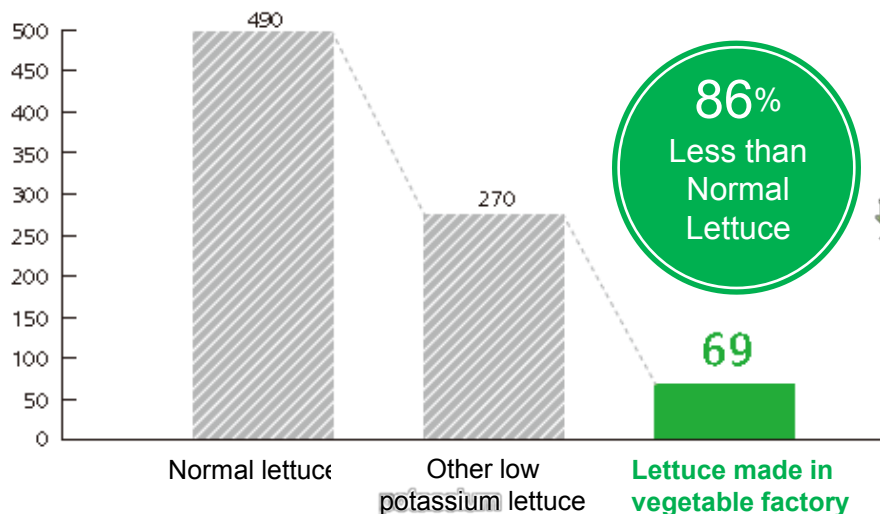
- ✓ Fully enclosed plant factory that utilizes unused clean rooms
- ✓ Mass production of low-potassium lettuce a functionally enhanced vegetable for patients with chronic renal disease.

\* Reference Site of "Akisai", Food-Agriculture cloud package

Feasibility study project supported by the Japanese Reconstruction Agency and METI

Potassium Content (mg per 100g)

As of June, 2012



Low Potassium Lettuce



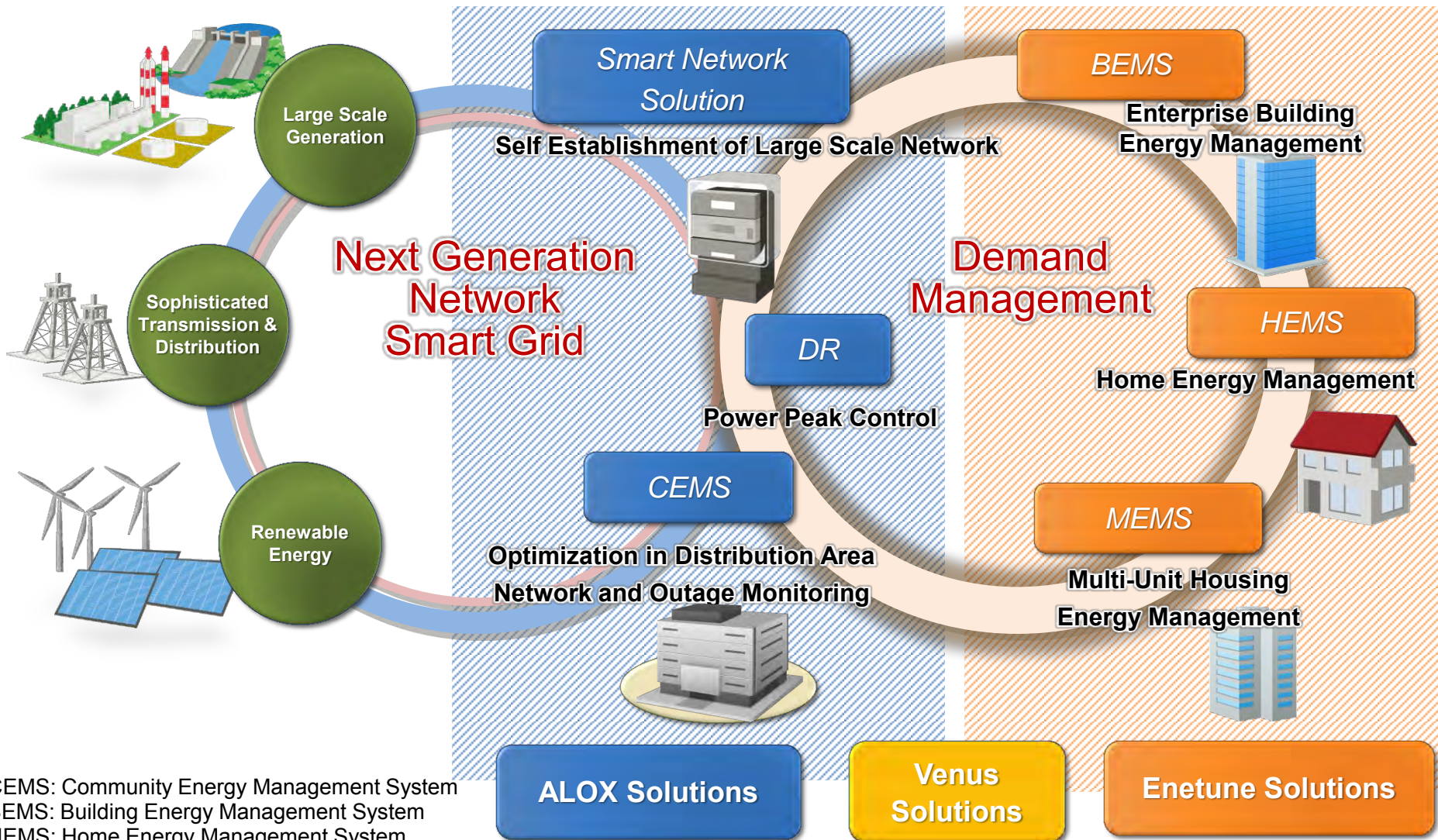
## Large Smart Factory with Advanced Potassium Technology



# Energy Solutions

# Improvement of Energy Use

## ■ Solution for Supply and Demand Optimization

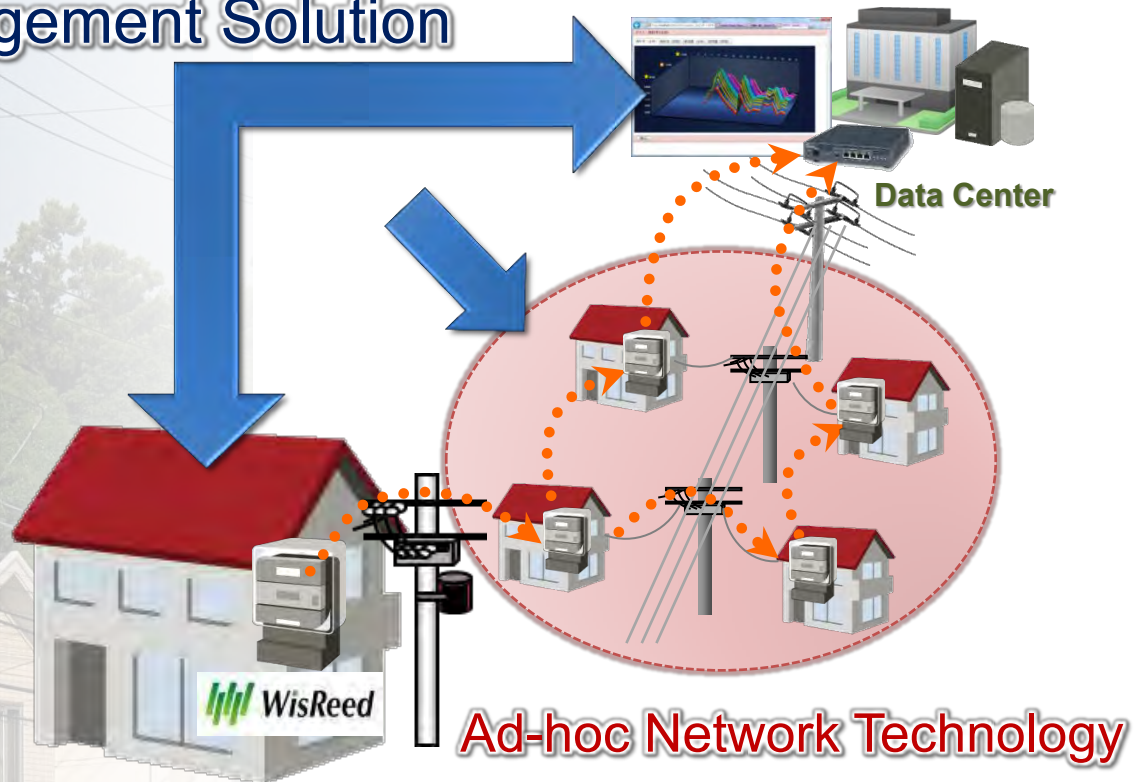


CEMS: Community Energy Management System  
 BEMS: Building Energy Management System  
 HEMS: Home Energy Management System  
 MEMS: Mansion Energy Management System  
 DR: Demand Response



# ■ Autonomous Network Establishment and Communication Recovery at failure

## Smart Meter Management Solution



## Smart Meter Network

(More than 20M Units can be operated for 10 years)

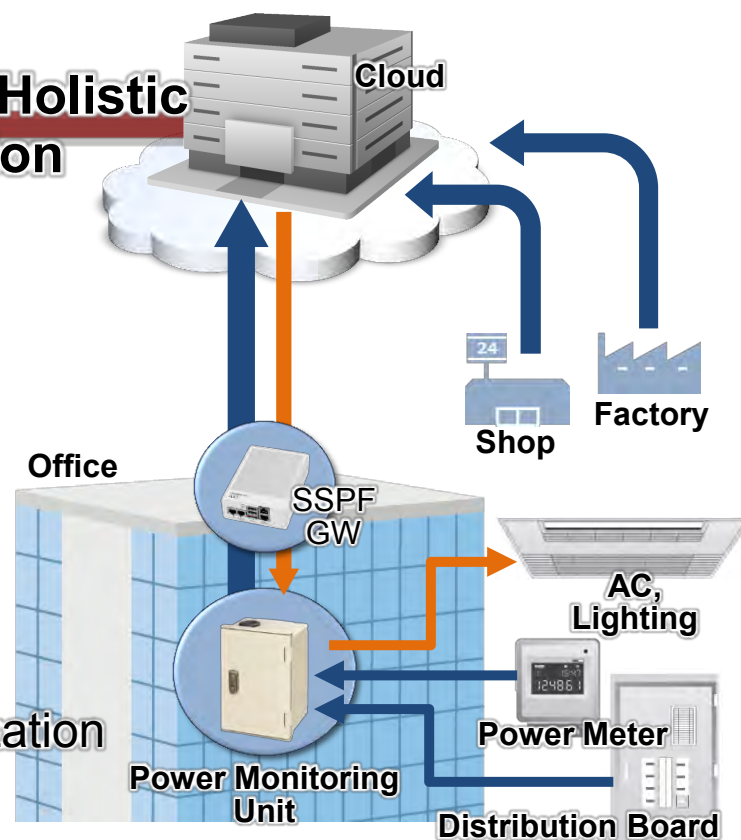
## ■ Energy Saving by Integrated Management

Integrated and Holistic  
Visualization

FUJITSU Intelligent Society Solution  
**Enetune-BEMS**

1. Demand Management and Visualization for Optimization
2. Remote and Automated Control

## Controlling Energy Use Peak Period



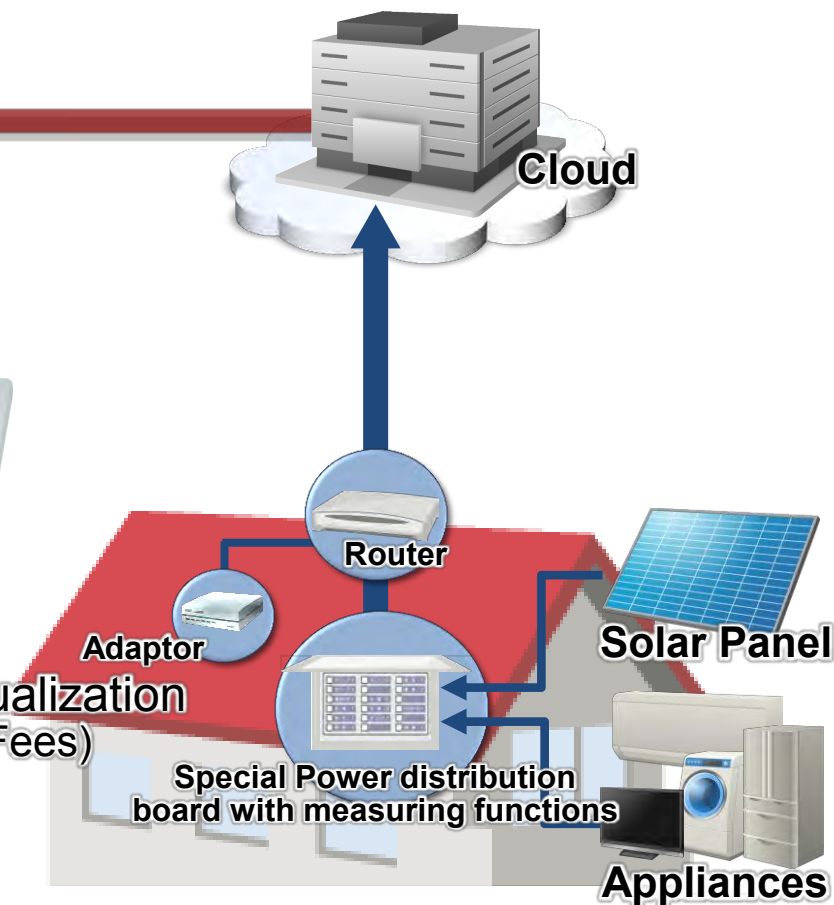


## Smart House Empowered by ICT

Smart House Services on Cloud  
Enetune-Home

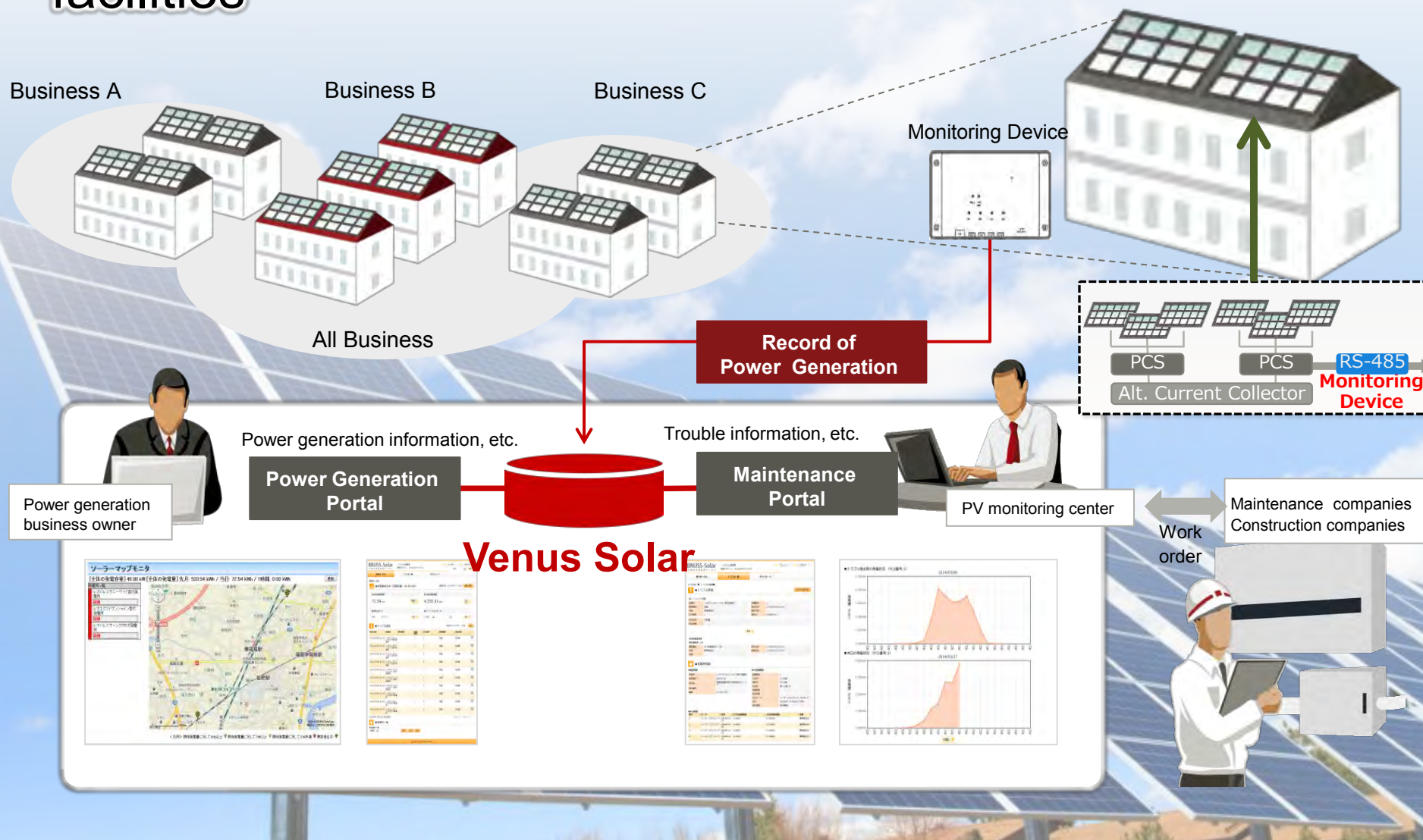


1. In-House Power Visualization  
(Power Consumption, Fees)
2. Energy Saving Tip

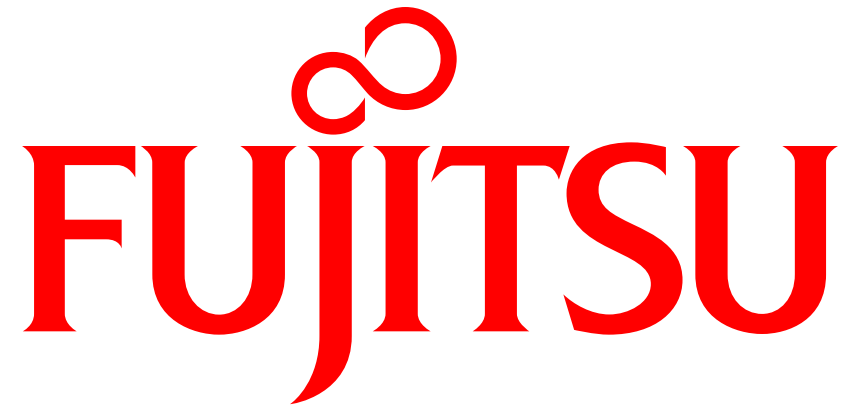


## Encouraging Energy Saving at Home

## Centralized Management of solar power generation facilities







shaping tomorrow with you